

Notice of Allowability

Application No.

10/609,321

Examiner

Dov Popovici

Applicant(s)

WEI ET AL.

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2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 6/27/2003.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

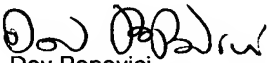
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/24/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20070422
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Dov Popovici
Primary Examiner
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Garred (Reg. No. 31,830) on 4/20/2007.

The application has been amended as follows:

In the claims:

In claim 8, line 4, change "Postscript" to -POSTSCRIPT--.

9. (Currently amended) A method for processing in a Raster Image Processor, the steps comprising:
receiving a raster imaging process job;
determining a job type;
selecting a Raster Imaging Processor from a plurality of Raster Image Processors;
forwarding the job to the selected Raster Image Processor; and
notifying other modules when the raster imaging process job is completed.

15. (Currently amended) A computer readable medium ~~of~~ encoded with instructions capable of being executed by a computer, ~~with computer readable the~~

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instructions stored thereon being for a pluggable Raster Image Processor system, comprising:

- means adapted to register a raster imaging processor;
- means adapted to receive a raster imaging process job
- means adapted to determine a job type;
- means adapted to select the raster imaging processor from a plurality of registered raster image processors;
- means adapted to forward the job to the selected Raster Image Processor; and
- means adapted to notify other modules when the raster imaging process job is completed.

16. (Currently amended) The computer readable medium of instructions of claim 15, the means adapted to register comprising a registry, the registry storing the job type that the raster image processor is capable of processing.

17. (Currently amended) The computer readable medium of instructions of claim 16, the means adapted to select comprises means for searching the registry for a raster image processor matching the job type.

18. (Currently amended) The computer readable medium of instructions of claim 15, the means adapted to determine a job type, comprising means adapted to searching the raster imaging process job for metadata indicating the job type.

19. (Currently amended) The computer readable medium of instructions of claim 15 further comprising;

- means adapted to tracking errors encountered by the Raster Image Processor when processing the raster imaging process job; and
- means adapted to marking the job as unserviceable after a predetermined number of errors are encountered.

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20. (Currently amended) The computer readable medium of instructions of claim 15 further comprising:

means adapted to de-registering a raster image processor from the plurality of raster image processors.

In the abstract:

In the abstract, line 7, change "comprises" to --includes--.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Steeves et al. (U.S. 5,075,874) teaches a RIP (64) and a plurality of emulation modules 104-112.

Cyman et al. (U.S. 5,949,438) teaches a RIP (64) and in figure 4 determining the type of objects and determines if the instruction within display list is text, graphic or image and sends commands to FIM 400, graphic MODULE 900, Screen module 97 (see figure 4).

Barry et al. (U.S. 6,606,165) teaches a RIP (670) attached to input plug-in and output plug-in (see figure 31).

Motamed et al. (U.S. 2002/0060801) teaches a multiple raster image processor system.

The closest prior art of record (Steeves et al., Cyman et al., Barry et al., and/or Motamed et al.) do not disclose, teach or suggest, determining a job type, selecting a raster imaging processor from a plurality of raster image processors, forwarding the job

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to the selected raster image processor and notifying other modules when the raster imaging processor job is completed, as claimed in independent claims 9 and 15.

The closest prior art of record (Steeves et al., Cyman et al., Barry et al., and/or Motamed et al.) does not disclose, teach or suggest, a registry communicatively coupled to the raster image processor manager layer and the pluggable raster image processor layer, wherein when a job is received, the raster image processor manager layer determines the job type and forwards the job to the pluggable raster image processor layer for processing, as claimed in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Steeves et al. (U.S. 5,075,874) teaches a RIP (64) and a plurality of emulation modules 104-112.

Barry et al. (U.S. 6,606,165) teaches a RIP (670) attached to input plug-in and output plug-in (see figure 31).

Christiansen et al. (U.S. 6,929,411) teaches selectable control of raster image processor.

Cyman et al. (U.S. 5,828,814) teaches a scaled down RIP.

Dolev et al. (U.S. 2005/0094194) teaches a RIP manager coupled to multiple RIP engines.

Christiansen et al. (U.S. 2004/0196493) teaches RIP manager and scheduler and RIP pipeline.

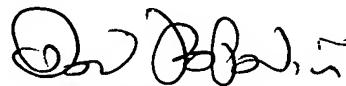
Barry et al. (U.S. 6,825,943) teaches multiple parallel image processing of large jobs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dov Popovici whose telephone number is 571-272-4083. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Dov Popovici
Primary Examiner
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